

HINTS FOR APPLYING CUT WORM REMEDIES

Tomatoes and Other Truck Subject to Destruction by This Pest

POISONED BRAN-BAITS DITCHES AND BARRIERS

And Arsenical Sprays for Extreme Outbreaks of the Enemy.

Tomatoes, cabbages, sweet potatoes, lettuce and other truck plants especially those which are started under glass and transplanted, are subject to serious injury by cutworms. These pests appear sometimes in great numbers in the spring and early summer, and frequently do severe injury before ravages are noticed. Their method of attack is to cut off the young plants at about the surface of the ground, and as the caterpillars are of large size and voracious feeders, they are capable of destroying many plants in a single night—frequently more than they can devour. Every year these insects, working generally throughout the United States, have destroyed hundreds of thousands of dollars' worth of crops. By the timely application of poisons, however, as has been demonstrated by entomologists of the U. S. Department of Agriculture, they readily can be controlled, even over considerable areas. The usual method of control is by the use of poisoned baits.

How to Mix and Apply Poisoned Baits. Take a bushel of dry bran, add 1 pound of white arsenic or Paris green, and mix it thoroughly into mash with 8 gallons of water in which has been stirred half a gallon of sorghum or other cheap molasses. (Arsenic and Paris green are deadly poisons. Handle them with great care.) This amount will be sufficient for the treatment of about 4 or 5 acres of cultivated crops. After the mash has stood for several hours, scatter it, in lumps about the size of a marble, over the fields where the injury is beginning to appear and about the bases of the plants set out. Apply late in the day, so as to place the poison about the plants before night, which is the time when the cutworms are active. Apply a second time, if necessary. Keep children, livestock, and chickens away from this bait.

What to Do When Cutworms Travel Like Army Worms. When cut worms occur in unusual abundance, which happens locally, and sometimes generally, they exhaust their food supply and migrate to other fields. This they do literally in armies, assuming what is called the army worm habit. At such times it is necessary to treat them the same as army worms. While the methods which have advised been advised are valuable in such cases, they may be too slow to destroy all the cutworms, and other methods must be employed. These include trenching, ditching, the plowing of deep furrows in advance of the traveling cutworms to trap them, and the dragging of logs or brush through the furrows. If the trenches can be filled with water, the addition of a small quantity of kerosene so as to form a thin scum on the surface, will prove fatal to the cutworms. In extreme cases barriers of fence board are erected and the tops smeared with tar or other sticky substances to stop the cutworms as they attempt to crawl over.

Spraying With Arsenicals.

In extremely severe attacks by cut worms on choice plants there is some times no opportunity to prepare the poisoned bait. In such cases an arsenate of lead spray will answer quite as well. In one instance a parsley field was sprayed with 4 pounds of arsenate of lead to 50 gallons of water; this killed all the cutworms, whereas if they had been left alone for a day or two longer the field probably would have been destroyed. The result was a perfect stand—the best ever made by the grower. In this case five applications were necessary.

Cultural Methods and Crop Rotation.

Clean cultural methods and crop rotation are advisable, as are also fall plowing and disking, to prevent recurrences of cutworm attacks.

WASHINGTON HOPES FOR U-BOAT SOLUTION

Naval Board Plan Is Not Given Out for Many Good Reasons.


Washington, May 5.—Officialdom took heart tonight at the prospects that a solution of the German u-boat ravages may be at hand. While without information as to the plan W. L. Saunders, of the consulting board, claims has been evolved, authorities said optimistically that the submarine menace will be ultimately overcome.

Censorship provisions prevent revelation of any details of Saunders' plan. Saunders and other colleagues, however, have been experimenting with many means of combating Germany's inroads on commerce, and it may well be, some authorities say, that the solution is already at hand.

Anniversary at Disaster. Monday—anniversary of the chief German u-boat outrage, the sinking of the Lusitania with her load of precious human freight—will probably find Secretary of the Navy Daniels and his advisers in possession of the Scheme Saunders believes will thwart Germany's ruthlessness.

The Saunders announcement was taken in some quarters with a "grain of salt," but the confident said Saunders is an able, discreet man who probably would not talk unless he knew whereof he spoke.

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Many cutworms can be destroyed where it is possible to overflow the fields, particularly where irrigation is practiced.

PATRIOTISM DEMANDS MUCH.



—Williams in Indianapolis News.

GIVE UNCLE SAM YOUR VACATION TIME

New York, May 16.—The United States Government will receive the services this Summer of nearly 5,000,000 men and women, if the "Vacation Service" movement started here is carried out according to the plans originated by Prof. Francis B. Crocker, formerly of Columbia University and a past president of the American Institute of Electrical Engineers. The movement means that the Government will receive about 10,000,000 weeks, or more than 192,300 years of the time of these men and women, who will give their vacations to their country as their patriotic duty. Prof. Crocker expects that his plan will be adopted all over the country.

"Realizing that there are many who cannot enlist," he said, "and who are unable to participate in the Liberty Loan as heavily as they wish, this means of national service was evolved. "This war is the most serious crisis the United States has ever faced—the work of every man, woman and child is needed to bring it to a successful conclusion. Every hour given to the Government is an hour gained in bringing the war to an early end. Understanding this, the 'Vacation Service' movement was started. Everyone in the United States that takes a vacation, and it is estimated that there are five million such, can do his or her bit by giving their two weeks to Government work. "Thousands, perhaps hundreds of thousands of these are specialists in their various trades or professions—they can give the services of experts. Others can put in their time on the farms helping to solve the vital food problem of the world. Think what it would mean to the farmers if they were able to avail themselves of 500,000 years of the time of willing workers, who worked because they were patriotic! There are hundreds of other tasks in which these patriots could help their country.

"Every person willing to do this should apply to the nearest Government depot or arrange to spend their vacations on the farms. Organizations should be formed in every city and these should enroll the vacation workers and assign them to their tasks." In this district the lead has been taken by the Crocker-Wheeler Company, electrical machinery manufacturers of Ampere, N. J., whose engineering and clerical forces are enthusiastic over this chance to serve their country. Other large manufacturing concerns are falling in line and it is expected that thousands of their employees will give their vacations to Uncle Sam.

No Nerve Here. Size doesn't always count. A puny little dentist can take the nerve out of his biggest patient.—Copied.

LET COLONEL CARRY BANNER TO FRANCE

Washington.—The way was cleared in congress today for Col. Roosevelt if he is given authorization by the administration to raise a division of volunteers for service in France. Reversing its previous action and overriding the conference committee on the army draft bill, the house voted, 215 to 178, to empower the president to extend authority for recruiting such a division. This sent the army bill back to conference, but the senate already had adopted a similar authorization during original consideration of the measure and its conferees are expected to agree quickly on it now.

Whether the necessary authority will be given Col. Roosevelt by the administration is problematical. The army general staff, whose advice President Wilson has followed closely in the conduct of the war, is strongly opposed to such a plan, declaring volunteer units of that character have no place in the great army. The house passed the authorization after a stormy debate. Representative Anthony led the fight for the colonel, moving to recommit the army bill to conference with instructions to accept the senate's Roosevelt amendment. Chairman Dent of the military committee and many other Democrats and Republicans fought against the proposal.

When the action of the house was reported to the senate Chairman Chamberlain of the military committee withdrew the conference report for revision and announced that the conferees would meet Monday.

SELECTED TO GO TO RUSSIA WITH ROOT

Washington.—The American commission to Russia for which Elihu Root has been selected as chairman, with rank of special ambassador, is expected to be composed also of the following named:

- Lieut. Col. William V. Judson, of the army engineers.
- Lieut. Col. T. Bentley Mott, retired, of the army engineers.
- Samuel R. Bertron, New York banker.
- Charles R. Crane, Chicago manufacturer and business man.
- James Duncan, vice president of the American Federation of Labor.
- Charles Edward Russell, author and Socialist.

Make Preserves. There cannot be an over-production of corn, but there can be an over-production of vegetables provided the surplus is allowed to go to waste. Each family should begin to make preparations now to pickle and preserve the surplus vegetables they will have this summer.—Dillon Herald.

GERMAN CITIZENS LONG IN AMERICA

Few Have Come to This Country in Past Twenty-five Years.

The National Geographic Society, from its Washington headquarters, has issued a striking bulletin on the number of German-born people in the United States. The bulletin also includes other statistics of vital interest in the present situation.

During the last quarter of a century there has been a startling falling-off in the percentage of Germans in the total number of immigrants who have come to our shores, says the bulletin. With more than 17,000,000 immigrant arrivals since 1890 only 1,023,000 have been Germans, whereas in the 114 years between the establishment of the American republic and 1890 out of a total of 15,689,000 immigrants there were 5,125,000 Germans—every third arrival a Teuton.

In from the 1,023,000 who have come to America since 1890, the period of greatest influx of foreigners, a proper deduction is made for those who returned to their homeland and those who have died since their arrival it will be seen that there are fewer than a million former subjects of the Kaiser in this country who have not been here more than 20 years. Of more than 87,000,000 people of German birth and heritage ancestry among us less than 1,000,000 will have the background of birth or long residence in America behind them.

An examination of the statistics of American immigration shows that since the foundation of our government the United Kingdom of Great Britain and Ireland has sent here 8,400,000 of her people and Germany more than 5,000,000,000.

Ireland with more than 2,000,000, Great Britain with a little less than 4,000,000, and Scandinavia, with something less than 2,000,000, have, together with Germany, contributed more than half of the total immigration to our shores since the beginning of the Revolutionary war.

Austria-Hungary stands next on the list of contributors to the immigrant stream, that has flowed from Europe to America. Although Austro-Hungarians began to immigrate in considerable numbers when the arrivals from western Europe had begun to fall off, sufficient have come from the dual monarchy to populate the State of Texas to its present density. Italy has sent enough of her people to populate the population of Montana, Wyoming, Idaho, Oregon, Nevada, Utah, Colorado, Arizona and New Mexico.

The Russians who have come to our shores number 3,419,000. They could replace a substantial portion of England.

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URGES RUSSIANS TO STAND BY ALLIES

President Rodzianko Repudiates Idea of Separate Peace —Is Cheered

WANT VICTORY TO PAY FOR SACRIFICE

Germany's Defeat Necessary for Highest Good of the New Russia.

Petrograd.—Thursday being the anniversary of the opening of the First Duma, an extraordinary session of delegates and ex-delegates was held at the Tauride palace. The members of the provisional government and foreign diplomats were also present.

Prolonged applause greeted a speech by President Rodzianko in which he repudiated any idea of a separate peace. There was an enthusiastic demonstration later when he proclaimed the loyalty of Russia toward her allies. The whole assembly stood and cheered the Entente ambassadors.

"The war which was forced upon us, which we did not desire and for which we are in no way responsible, must be brought to a successful termination in such a manner that the integrity of the country and the national honor of Russia shall be entirely maintained," said President Rodzianko.

"The innumerable sacrifices we bid upon the altar of this war demand that the peace should correspond with the intensity of our efforts and that the aim for which we are struggling, the triumph of the ideals of justice and liberty, be assured us."

Germany's Ambition. "The Germans oppose to these splendid ideals their own program, which is totally different, the hegemony of the world and the enslavement of the nations. The struggle for the principals so contradictory can not terminate in a draw, but only by a decisive victory by one or the other of the adversaries. Only the complete defeat of German militarism will assure the happiness of the world.

"The gulf separating the Germans—the devastators and destroyers of civilization—from the Allies is too deep for the war to be concluded without the realization of the ideals I have mentioned. Peace in the present conditions would be only an injustice of greater or less duration. Do not forget that the working classes of Germany, however, Socialistic they be, ardently desire victory, for Germany can not reduce her vast industry, and her defeat by the Allies would be like the blow of a club for the workers of Germany, who naturally support the imperialistic aspirations of their government.

"That is why I declare emphatically that the Russian people must make every sacrifice to bring this war, in concert with their allies, to a complete victory, all the more because such a victory would consolidate forever the liberties we have just won.

"Russia can not betray the Allies by whose side she has been fighting for three years and she will remain faithful to them."

Prince Lvoff, the premier, also addressed the Duma gathering.

"It is not the wonderful, almost magic character of the Russian revolution; it is not the power displayed and the rapidity of development which astonish the world, but the idea which directed it and which embraces not only the interests of the Russian people, but those of all the nations," said the premier. "It is true that this revolution compels us to endure a period of great trials and raises in our paths to social happiness the grim spectres of anarchy and despotism. But you representatives of the nation may be sure that the work you inaugurated and have pursued despite all obstacles, disillusionments and hostile elements, will not have been in vain. The work of the great revolution is not concluded, but every day strengthens our confidence in the creative forces of the Russian people and the greatness of its future."

Sheriff J. A. Lewis was away on business the middle of last week.